

**HAZARD RANKING SYSTEM (HRS)
DOCUMENTATION RECORD - REVIEW COVER SHEET**

Name of Site: Jackpile-Paguate Uranium Mine

EPA ID No.: NMN000607033

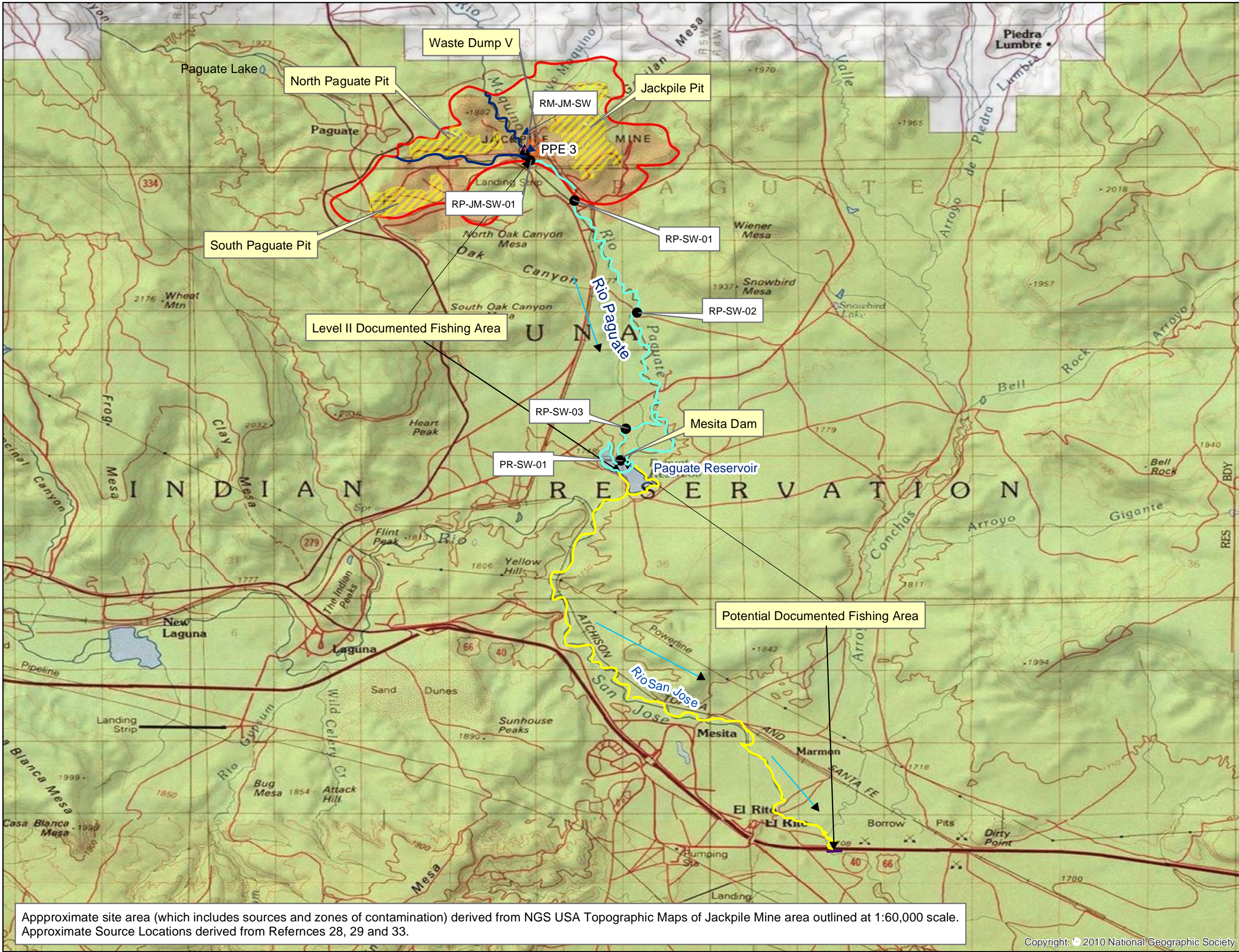
Contact Persons

Site Investigation: Brenda Nixon Cook, NPL Coordinator, EPA Reg.6 (214) 665-7436
(Name) (Telephone)

Documentation Record: Brenda Nixon Cook, NPL Coordinator, EPA Reg.6 (214) 665-7436
(Name) (Telephone)

Pathways, Components, or Threats Not Scored

- 1) Ground Water Pathway: The ground water migration pathway has not been scored because although there is analytical data to support a release, there is not a sufficient number of targets to impact the site score. Based on information available at this time, evaluation of the ground water migration pathway would not affect the listing decision.
- 2) Ground Water to Surface Water Pathway: The ground water to surface water pathway has not been scored because although ground water in the Jackpile Sandstone interchanges with water in the Rio Moquino and Rio Paguate through unconsolidated alluvium deposits along the stream channels, the overland flow component score was sufficient for site listing.
- 3) Soil Exposure Pathway: The soil exposure pathway has not been scored. Based on information available at this time, evaluation of the soil exposure pathway would not affect the listing decision.
- 4) Air Pathway: The air migration pathway has not been scored. Based on information available at this time, evaluation of the air migration pathway would not affect the listing decision.
- 5) Surface Water Pathway: The drinking water and environmental threats have not been scored. Based on information available at this time, evaluation of the drinking water and environmental threats would not affect the listing decision.



Approximate site area (which includes sources and zones of contamination) derived from NGS USA Topographic Maps of Jackpile Mine area outlined at 1:60,000 scale.
Approximate Source Locations derived from References 28, 29 and 33.

New Mexico

LEGEND

- Approximate Mine Boundary
- River
- Probable Point of Entry (PPE)
- Level II Sample Locations
- Waste Dump
- Open Pit
- Overland Flow Direction
- Level II Documented Fishery
- Potential Documented Fishery
- Target Distance Limit (TDL)
- Surface Water Flow Direction

0 1.25 2.5
SCALE IN MILES

TDD NO: TO-0019-10-02-02
CERCLA NO: NMN000607033
SSID: A6T3

SOURCE: NGS USA Topographic Maps

DISCLAIMER: THIS FIGURE IS PREPARED FOR REFERENCE PURPOSES ONLY AND SHOULD NOT BE USED, AND IS NOT INTENDED FOR, SURVEY OR ENGINEERING PURPOSES.

**USEPA REGION 6
START-3**

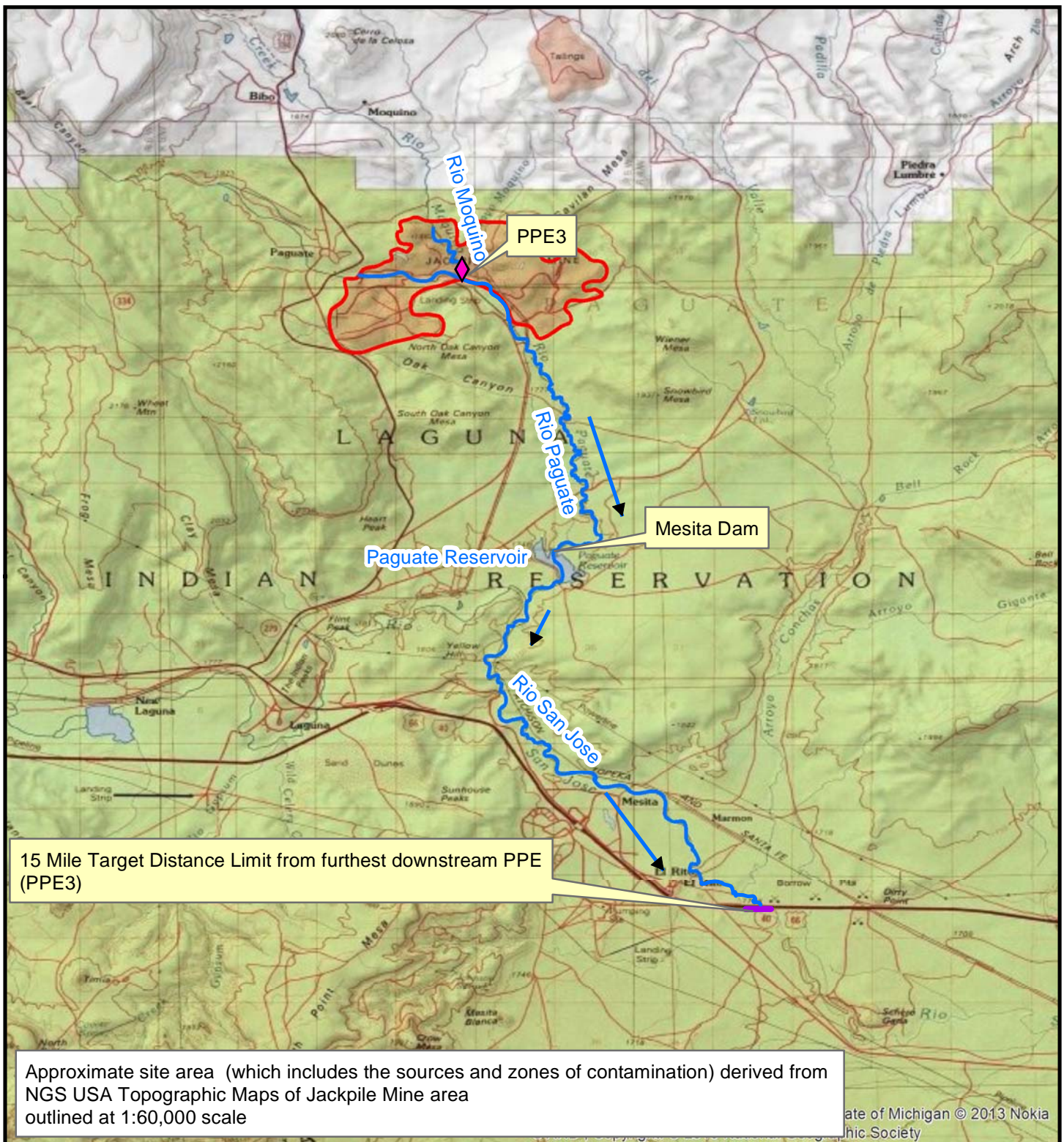
**FIGURE A-3
SURFACE WATER PATHWAY MAP
JACKPILE-PAGUATE URANIUM MINE
SR 279 Laguna Pueblo**

Paguate, Cibola County, New Mexico

DATE OCT. 2013	PROJECT NO 20406.012.019.0514.01	SCALE AS SHOWN
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File: C:\Program Files\ArcGIS\Projects\brownm\Jackpile\HRS\Figure A-3_101411.mxd, 14-October 2011, brownm



LEGEND

- ▮ Approximate Mine Boundary
- ◆ Probable Point of Entry (PPE)
- Surface Water (SW) Pathway
- Target Distance Limit (TDL)
- ➔ Flow Direction

NEW MEXICO

Source: NGS USA Topographic Maps
CERCLIS: NMN000607033
SSID: A6T3
TDD: TO-0019-10-02-02



USEPA REGION 6 START-3

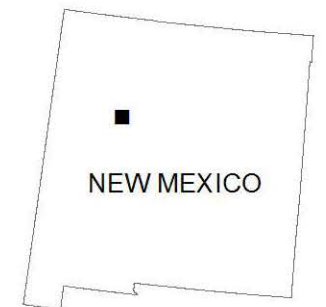
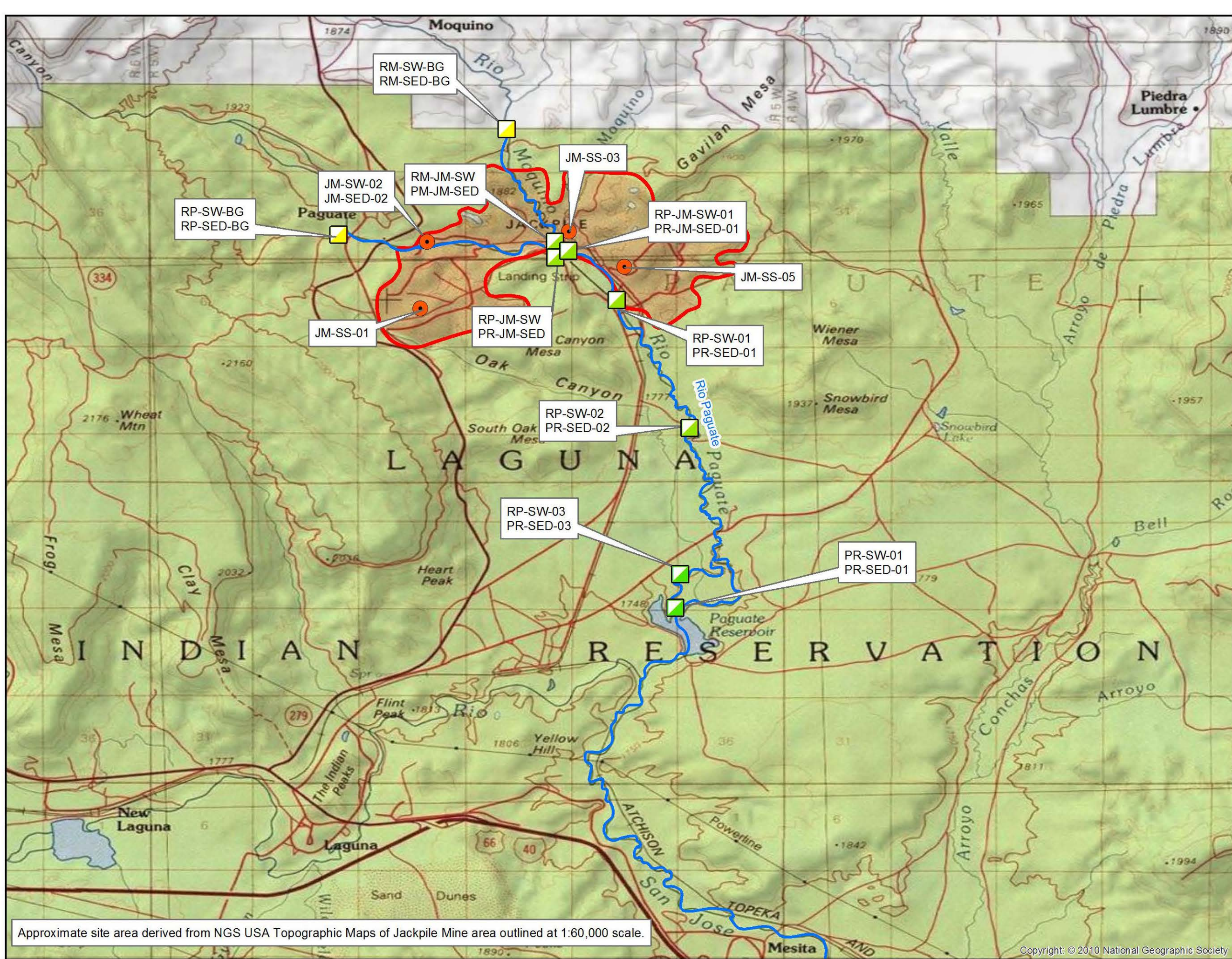
FIGURE A-4 15-MILE TARGET DISTANCE LIMIT JACKPILE-PAGUATE URANIUM MINE

SR 279 Laguna Pueblo
Paguate, Cibola County, New Mexico

DATE
OCT. 2013

PROJECT NO
20406.012.001.0222.01

SCALE
NOT TO SCALE



- LEGEND**
- Approximate Mine Boundary
 - Surface Water (SW) Pathway
 - SW and Sediment Sample Location
 - SW and Sediment Background Sample Location
 - Source Sample Location
 - Sample Name



0 1 2
Miles

Source: NGS USA Topographic Maps
CERCLIS: NMN00607033
SSID: A6T3
TDD: TO-0019-10-11-01

DISCLAIMER: THIS FIGURE IS PREPARED FOR REFERENCE PURPOSES ONLY AND SHOULD NOT BE USED, AND IS NOT INTENDED FOR, SURVEY OR ENGINEERING PURPOSES.



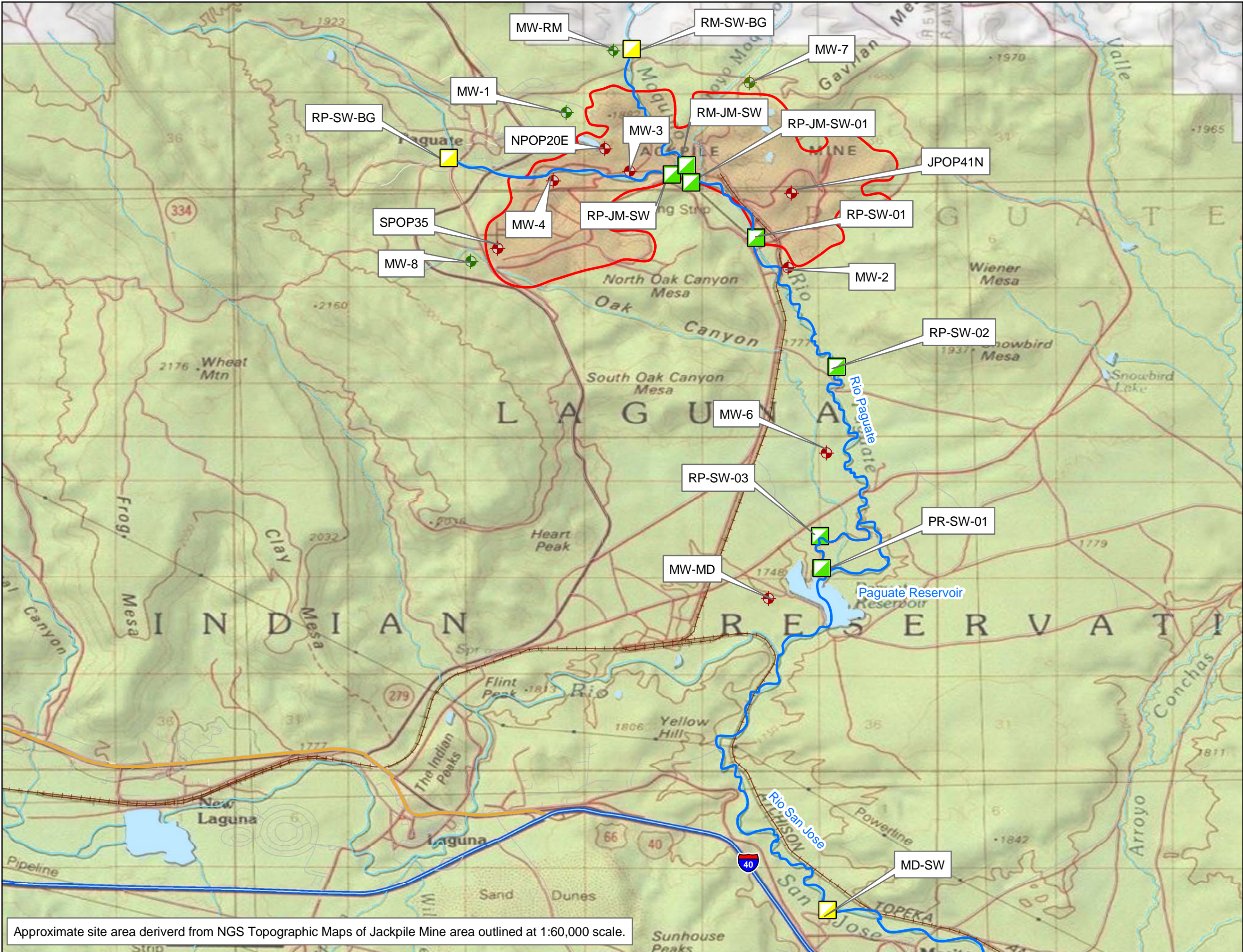
**USEPA REGION 6
START-3**

**FIGURE A-5A
SITE INSPECTION
SAMPLE LOCATION MAP
JACKPILE-PAGUATE URANIUM MINE
SR 279 Laguna Pueblo
Paguate, Cibola County, New Mexico**

DATE	PROJECT NO	SCALE
OCT. 2013	20406.012.019.0514.01	AS SHOWN

Approximate site area derived from NGS USA Topographic Maps of Jackpile Mine area outlined at 1:60,000 scale.

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NEW MEXICO

LEGEND

- Approximate Mine Boundary
- Surface Water (SW) Pathway
- SW and Sediment Sample Location
- Monitoring Well Sample Location
- Background Sample Location
- Monitoring Well Background Sample Location
- RP
- Sample Name

0 1 2

SCALE IN MILES

Source: NGS USA Topographic Maps
CERCLIS: NMN000607033
SSID: A6T3
TDD: TO-0019-10-11-01

DISCLAIMER: THIS FIGURE IS PREPARED FOR REFERENCE PURPOSES ONLY AND SHOULD NOT BE USED, AND IS NOT INTENDED FOR, SURVEY OR ENGINEERING PURPOSES.

**USEPA REGION 6
START-3**

**FIGURE A-5B
EXPANDED SITE INSPECTION
SAMPLE LOCATION MAP
JACKPILE-PAGUATE URANIUM MINE ESI**

SR 279 Laguna Pueblo
Paguate, Cibola County, New Mexico

DATE	PROJECT NO	SCALE
JULY 2011	20406.012.019.0603.01	AS SHOWN

Approximate site area derived from NGS Topographic Maps of Jackpile Mine area outlined at 1:60,000 scale.

HRS DOCUMENTATION RECORD – REVIEW COVER SHEET

Site Name: Keddy Mill
EPA ID No.: MEN000106078

Contact Persons

Site Investigation: H&S/Nobis Environmental JV LLC. (HSNE)
Superfund Technical Assessment and Response Team III (START)
160 East Main Street, Suite 2F
Westborough, Massachusetts 01581
(508) 366-7442
(Mr. Denis McGrath, CHMM - (978) 703-6016)

Documentation Record: HSNE
START
160 East Main Street, Suite 2F
Westborough, Massachusetts 01581
(508) 366-7442
(Mr. Denis McGrath, CHMM - (978) 703-6016)

Site Contact: U.S. Environmental Protection Agency (EPA) Region 1
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912
(617) 918-1407
(Ms. Martha Bosworth)

Pathways, Components, or Threats Not Scored

The ground water, drinking water threat of the surface water, soil exposure, and air migration pathways were not scored in this Hazard Ranking System (HRS) documentation record because the human food chain and environmental threats of the surface water migration pathway are sufficient to qualify the Keddy Mill for the National Priorities List (NPL).

Ground Water Migration Pathway

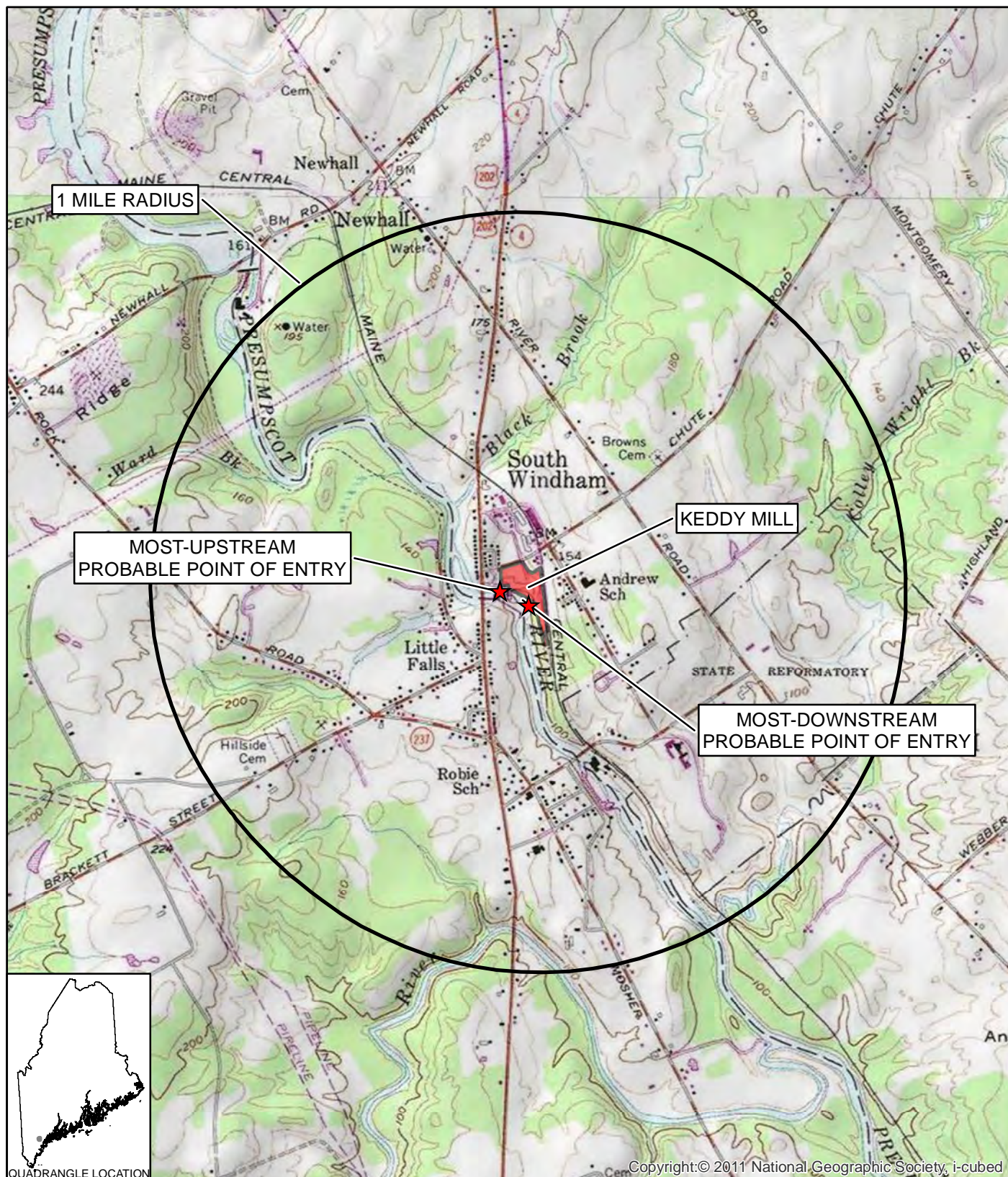
Based upon the location and proximity of the surrounding drinking water supply resources, no nearby drinking water supplies are known or suspected to have been impacted by a release from sources; therefore, this pathway has not been included in this HRS documentation record [Ref. 3].

Soil Exposure Pathway

Soil sampling has been limited to the Keddy Mill property itself [Ref. 4, pp 23-34; Ref. 6, p. 19]. Based upon the lack of a resident population, terrestrial sensitive environments, and the relatively low nearby population targets, the resulting pathway score would not contribute significantly to the overall site score. This pathway has not been included in this HRS documentation record.

Air Migration Pathway

To date, a release of hazardous substances to air from on-site sources has not been documented; consequently, the resulting pathway score would not contribute significantly to the overall site score. This pathway has not been included in this HRS documentation record.



0 1,000 2,000 4,000
Feet
1:24,000

Topography Data Source: National Geographic through ESRI
USGS Quadrangle Name: Gorham, Maine, Revised 1975.
Site Boundary: Reference 11
Location of all features is approximate. Map is for reference purposes only. H&S/Nobis Environmental JV, LLC makes no claims, warranties, representations, expressed or implied, relating to the completeness, accuracy, or reliability of the data shown.



160 East Main Street Suite 2F
Westborough, MA 01581

FIGURE 1

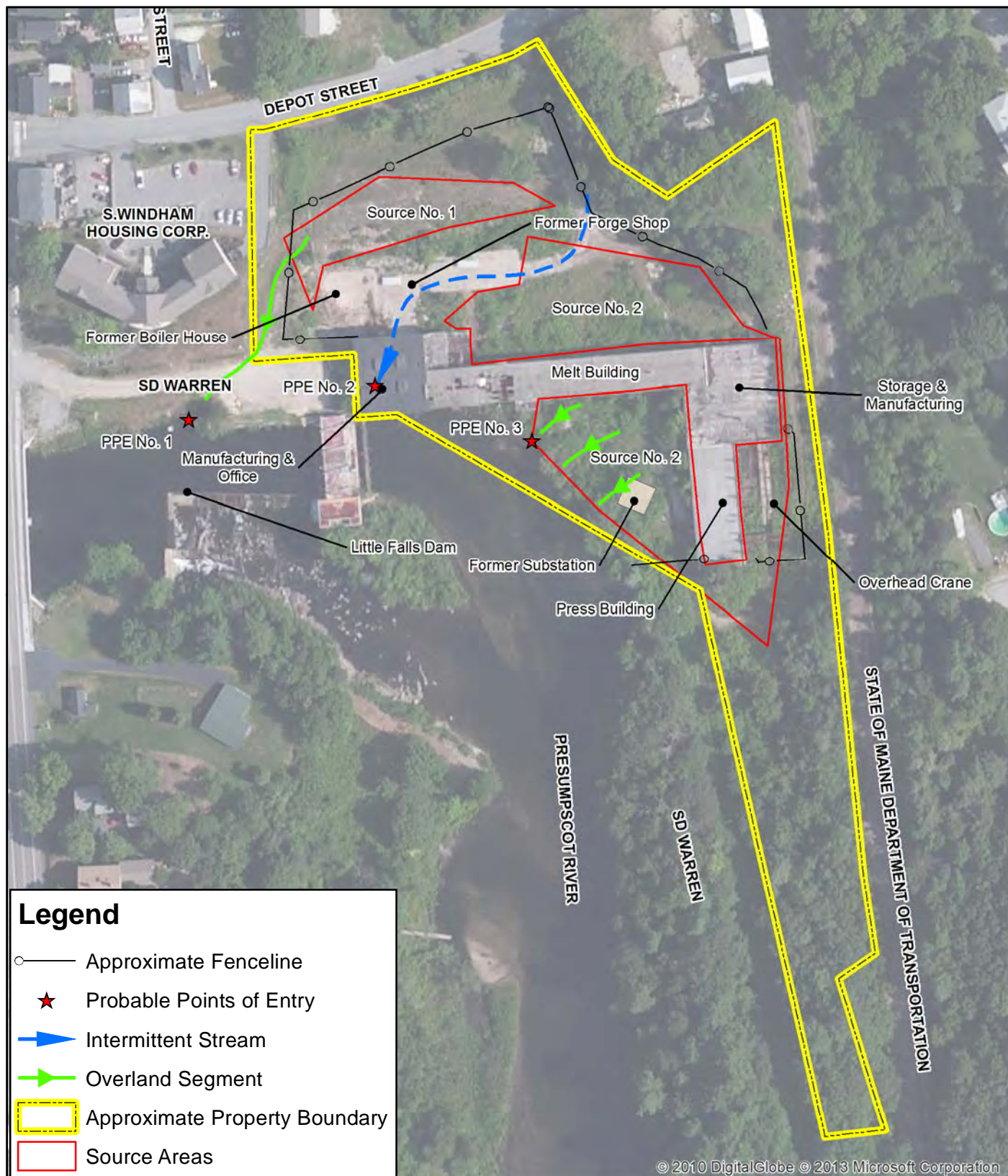
PROPERTY LOCATION
KEDDY MILL
7 DEPOT STREET
WINDHAM, MAINE

TDD No. SA-01-13-01-0001

DRAWN BY: DM

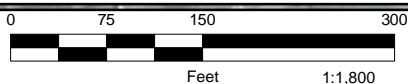
DATE: August, 2013

Keddy Mill
MEN000106078



Legend

- — Approximate Fenceline
- ★ Probable Points of Entry
- ➡ Intermittent Stream
- ➡ Overland Segment
- Approximate Property Boundary
- Source Areas



Basemap Image Source: Bing through ESRI portal
 Building Locations Source: Reference 14, p. 140
 Property Boundary and Abutters Source: Reference 11
 Remaining Data: Refs. 35, 43, 60

Location of all features is approximate. Map is for reference purposes only.
 H&S/Nobis Environmental JV, LLC makes no claims, warranties, representations,
 expressed or implied, relating to the completeness, accuracy, or reliability of the data.



160 East Main Street Suite 2F
 Westborough, MA 01581

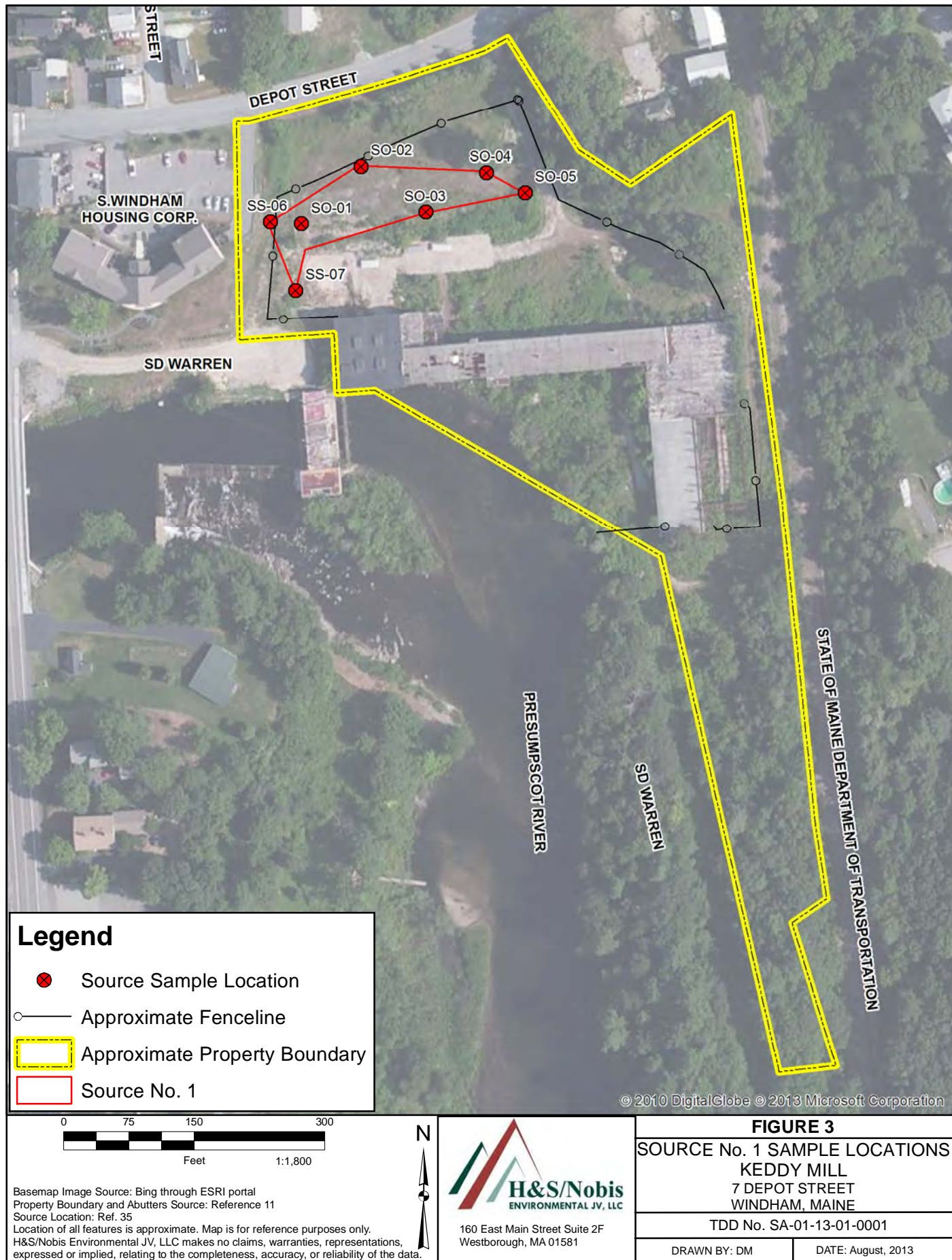
FIGURE 2

PROPERTY LAYOUT
 KEDDY MILL
 7 DEPOT STREET
 WINDHAM, MAINE

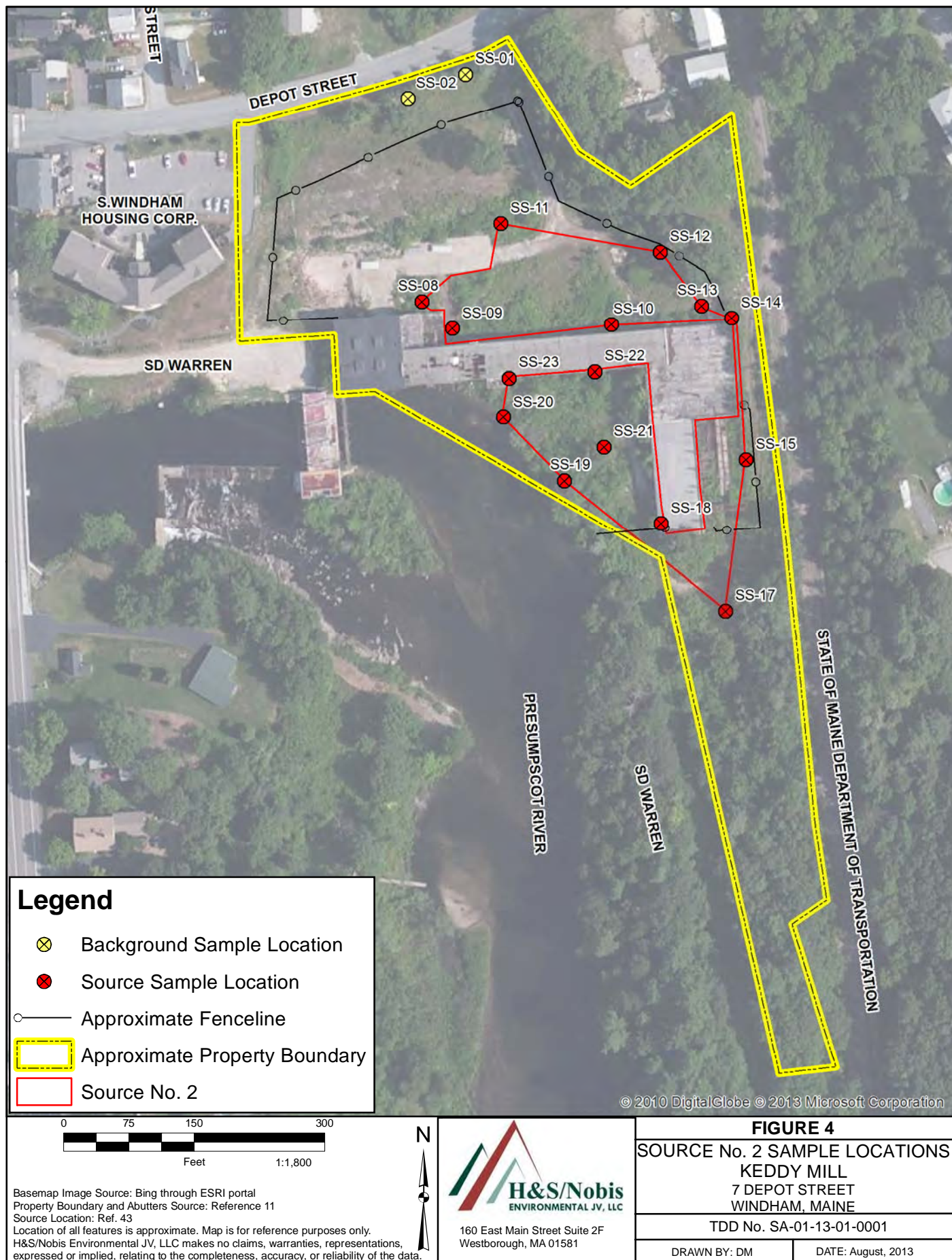
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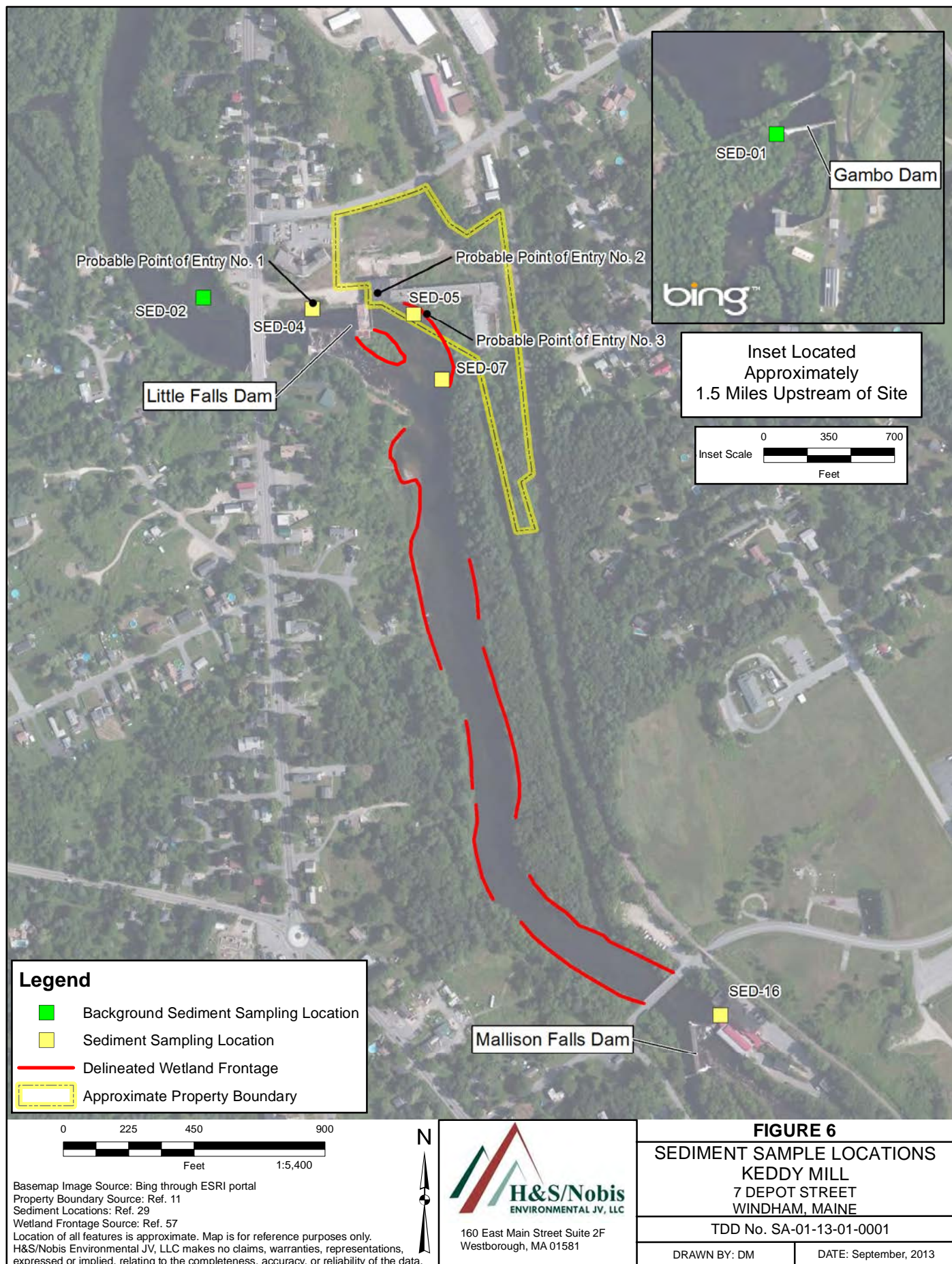
DATE: August, 2013



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**HAZARD RANKING SYSTEM (HRS)
DOCUMENTATION RECORD - REVIEW COVER SHEET**

Name of Site: MacMillan Ring Free Oil

EPA ID No.: ARD008049207

Contact Persons

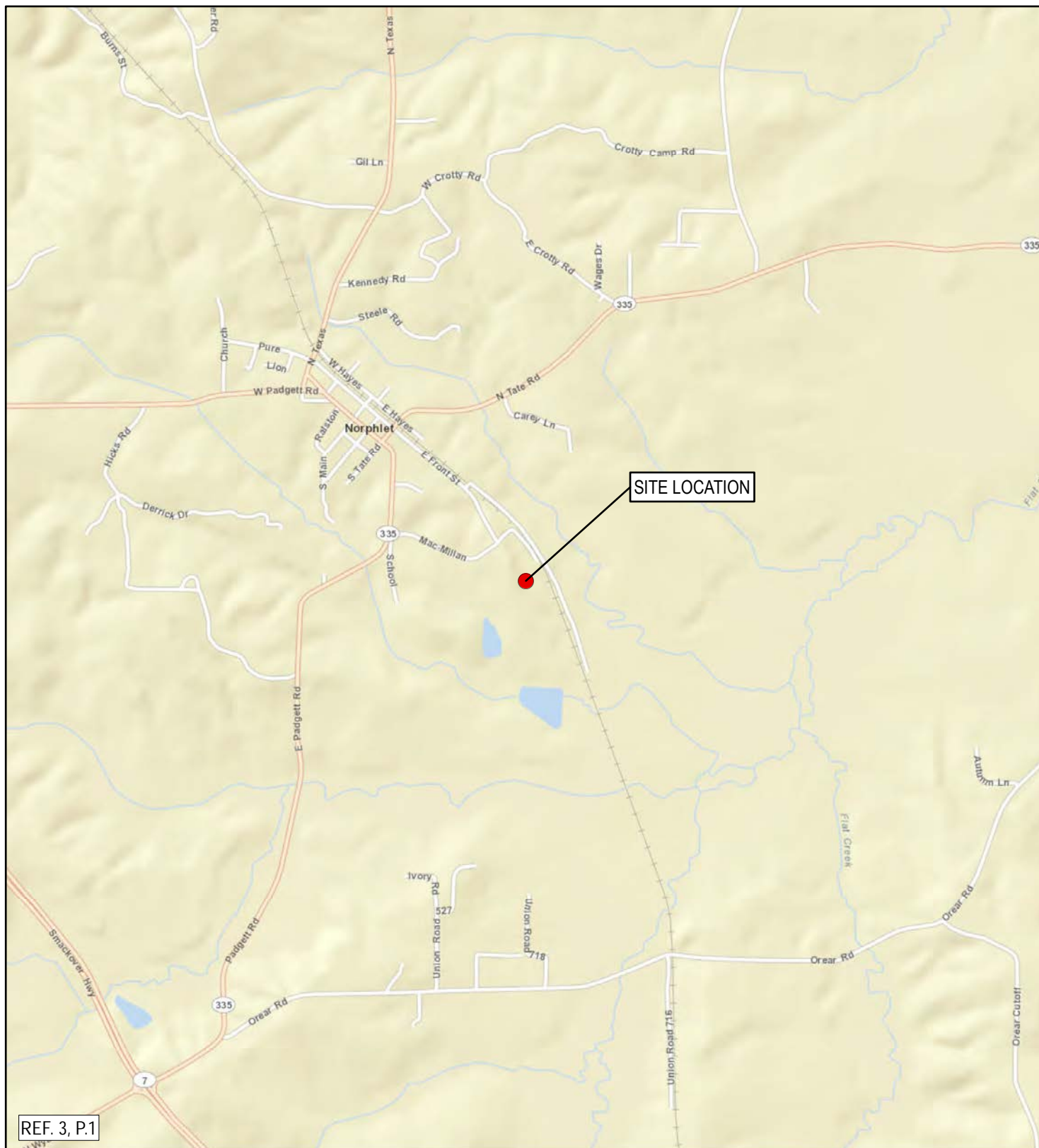
Site Investigation: Brenda Nixon Cook, NPL Coordinator, EPA Reg.6 (214) 665-7436
(Name) (Telephone)

Documentation Record: Brenda Nixon Cook, NPL Coordinator, EPA Reg.6 (214) 665-7436
(Name) (Telephone)

Pathways, Components, or Threats Not Scored

Although the surface water migration pathway score is sufficient to list the site, contamination in other media has been identified that may pose a threat to human health and the environment and may be evaluated in the future (Ref. 5).

- 1) Ground Water Pathway: The ground water migration pathway has not been scored because, based on information available at this time, scoring of the ground water migration pathway would not significantly affect the listing decision (Ref. 1, Sec. 2.2.3).
- 2) Soil Exposure Pathway: The soil exposure pathway has not been scored. Based on information available at this time, evaluation of the soil exposure pathway would not affect the listing decision (Ref. 1, Sec. 2.2.3).
- 3) Air Pathway: The air migration pathway has not been scored. Based on information available at this time, evaluation of the air migration pathway would not affect the listing decision (Ref. 1, Sec. 2.2.3).
- 4) Surface Water Pathway: The Surface Water Pathway has been scored for the Human Food Chain Threat and Environmental Threat. The drinking water threat has not been scored. Based on information available at this time, evaluation of the drinking water threat would not affect the listing decision (Ref. 1, Sec. 2.2.3).



REF. 3, P.1

0 2,000 4,000
Feet

LEGEND

● SITE LOCATION



US EPA REGION 6

FIGURE A-1
FACILITY LOCATION MAP
MACMILLAN RING FREE OIL CO. INC.
600 MACMILLAN RD
NORPHLET, UNION COUNTY, ARKANSAS

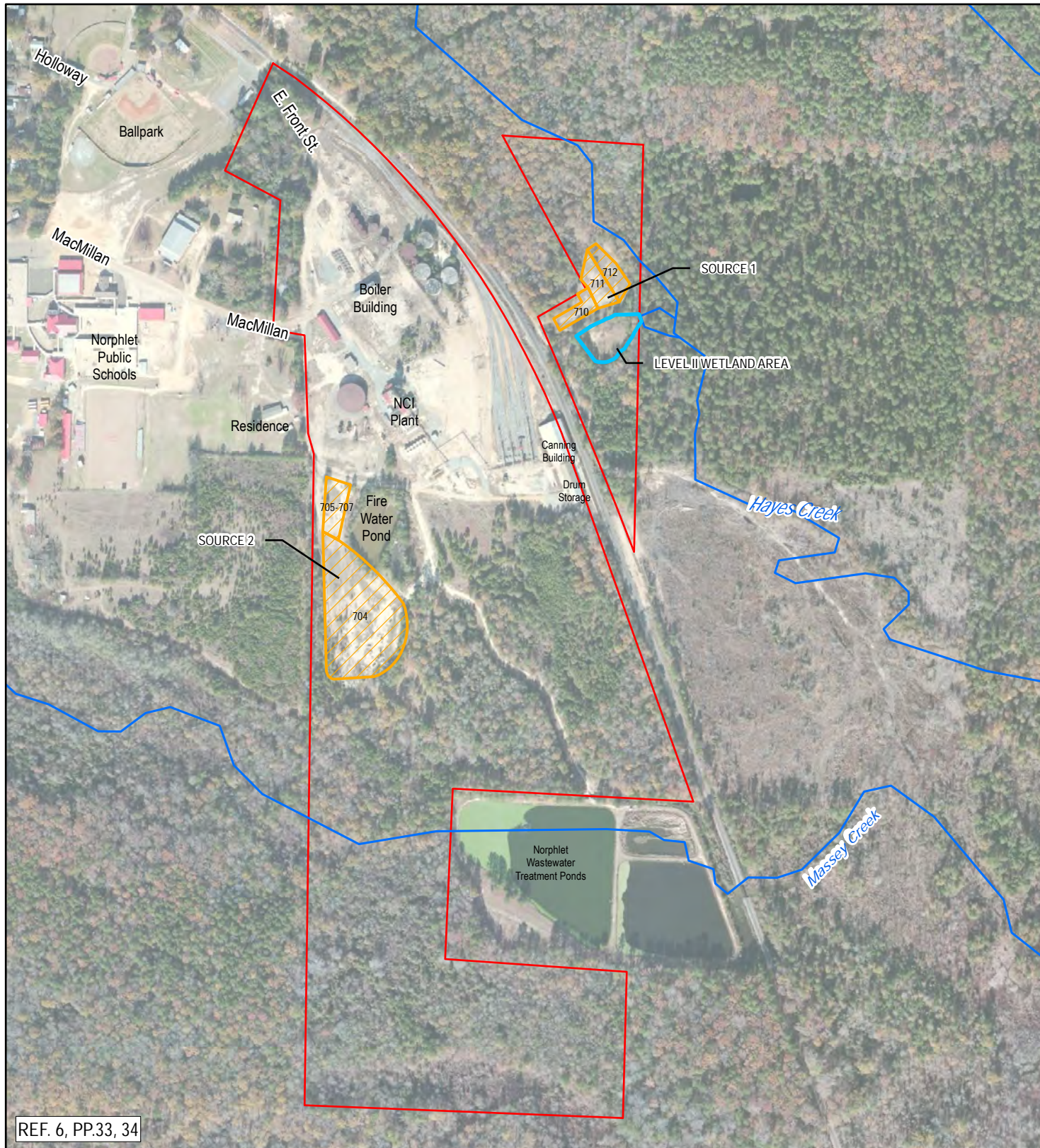
DATE
SEPTEMBER, 2013

PROJECT NO
20406.012.019.0718.01

SCALE
AS SHOWN

TDD NO: TO-0019-12-03-01
CERCLIS NO: ARD008049207

SOURCE: ESRI StreetMap and Data Partners



REF. 6, PP.33, 34

0 550 1,100
Feet

LEGEND

- FORMER PONDS
- PROPERTY BOUNDARY
- LEVEL II WETLAND AREA



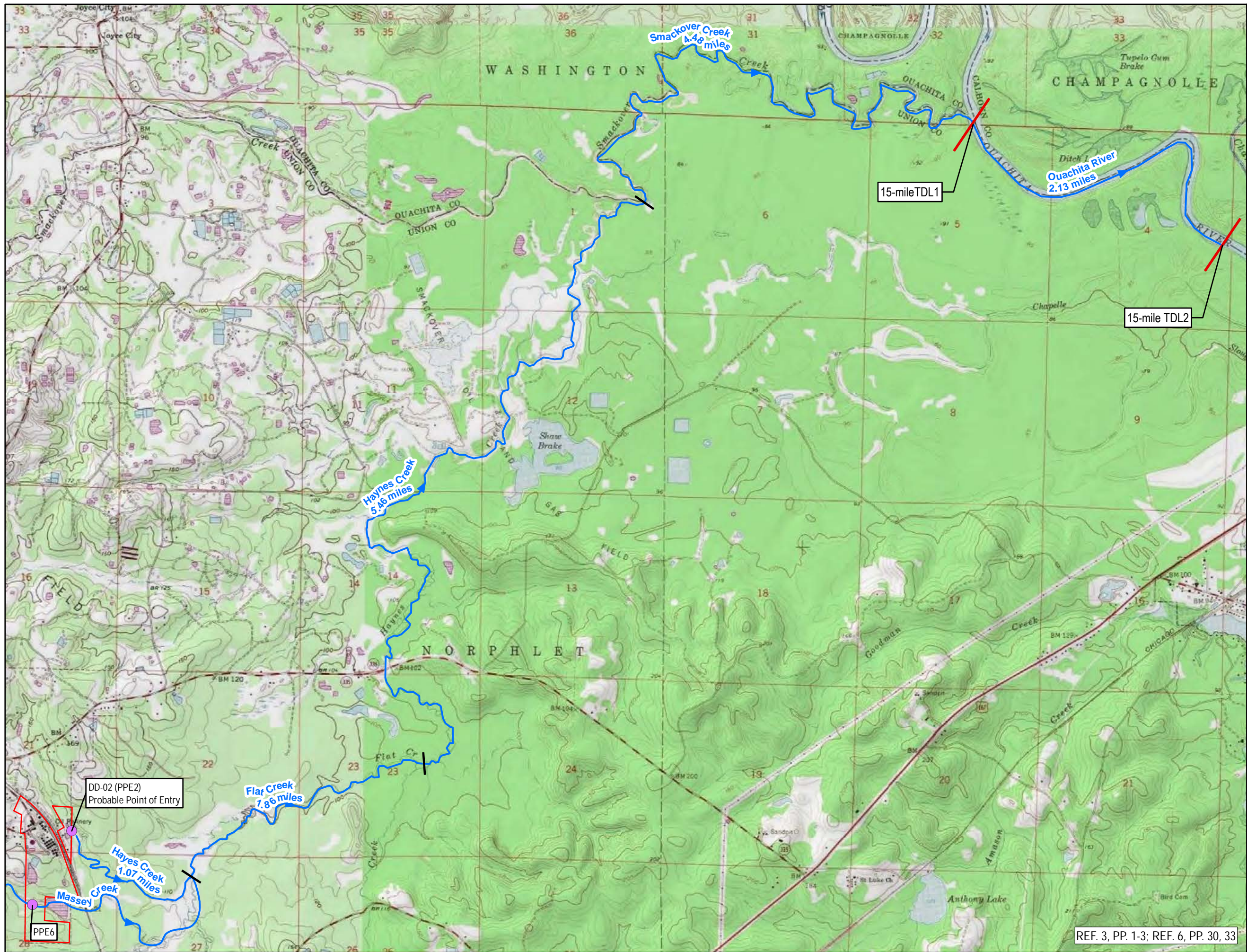
US EPA REGION 6

FIGURE A-2
PROPERTY LAYOUT MAP
MACMILLAN RING FREE OIL CO. INC.
600 MACMILLAN RD
NORPHLET, UNION COUNTY, ARKANSAS

DATE SEPTEMBER, 2013	PROJECT NO 20406.012.019.0718.01	SCALE AS SHOWN
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TDD NO: TO-0019-12-03-01
CERCLIS NO: ARD008049207

SOURCE: (c) 2010 Microsoft Corporation and its data suppliers



- LEGEND
- 15-MILE TARGET DISTANCE LIMIT
 - UPSTREAM PROBABLE POINT OF ENTRY
 - PROPERTY BOUNDARY



0 0.5 1
Miles

TDD NO: TO-0019-12-03-01
CERCLIS NO: ARD008049207
SOURCE: © 2011 National Geographic Society, i-cubed

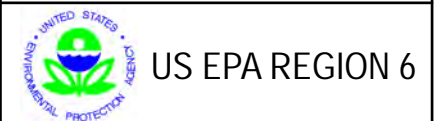
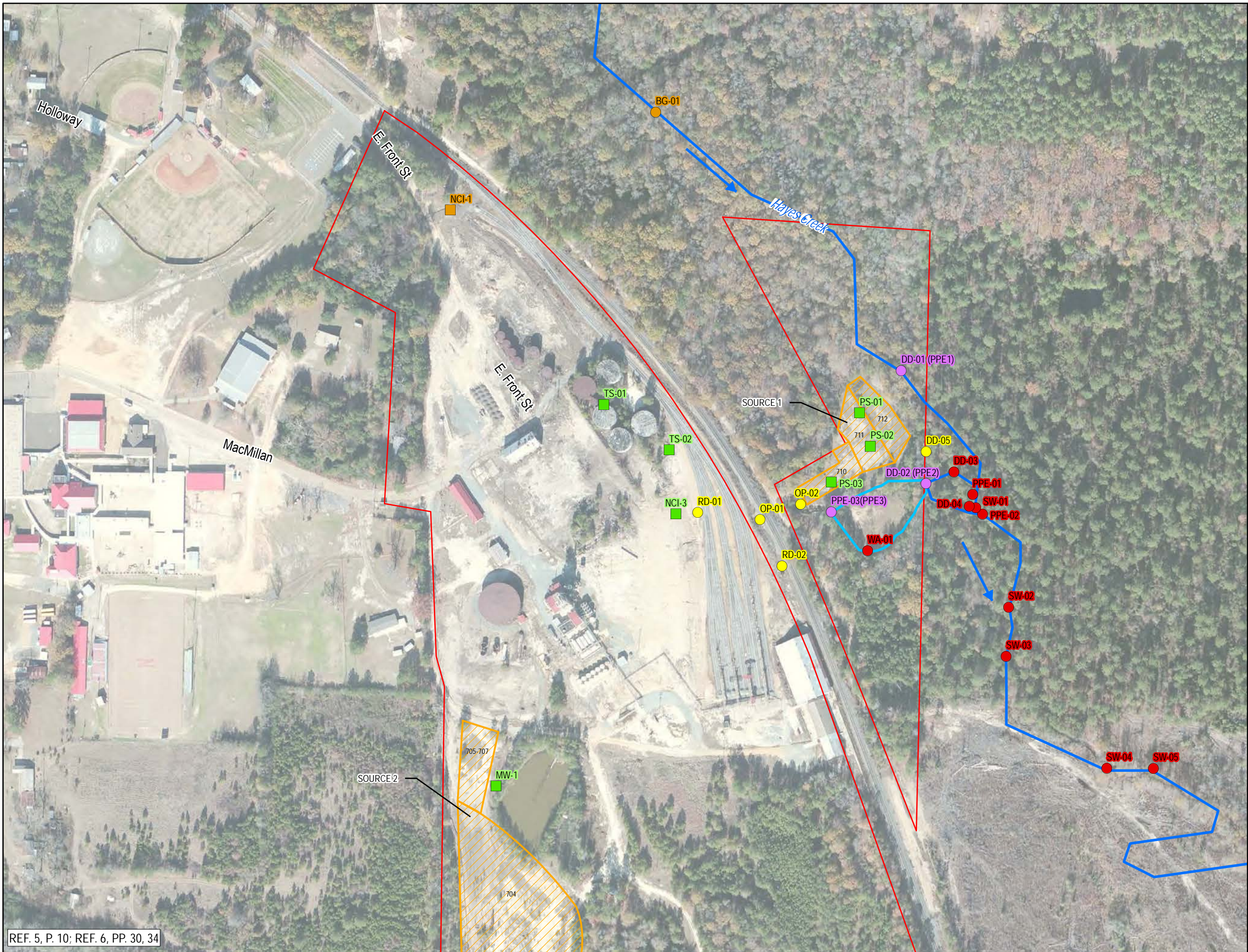
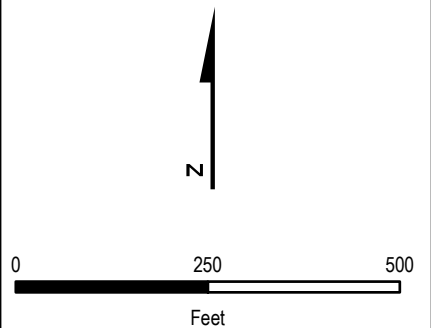


FIGURE A-4
15-MILE TARGET DISTANCE LIMIT
MACMILLAN RING FREE OIL CO. INC.
600 MACMILLAN RD
NORPHLET, UNION COUNTY, ARKANSAS

DATE	PROJECT NO	SCALE
SEPTEMBER, 2013	20406.012.019.0718.01	AS SHOWN



- LEGEND
- BACKGROUND GROUNDWATER SAMPLE
 - BACKGROUND SEDIMENT SAMPLE
 - LEVEL II SEDIMENT SAMPLE
 - PROBABLE POINT OF ENTRY
 - SEDIMENT CHARACTERIZATION SAMPLE
 - SOURCE CLASSIFICATION SAMPLE
 - SURFACE WATER FLOW DIRECTION
 - LEVEL II WETLAND AREA
 - PROPERTY BOUNDARY
 - FORMER PONDS



TDD NO: TO-0019-12-03-01
CERCLIS NO: ARD008049207
SOURCE: (c) 2010 Microsoft Corporation and its data suppliers

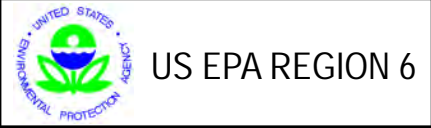


FIGURE A-5
SAMPLE LOCATION MAP
MACMILLAN RING FREE OIL CO. INC.
600 MACMILLAN RD
NORPHLET, UNION COUNTY, ARKANSAS

DATE	PROJECT NO	SCALE
JULY, 2013	20406.012.019.0718.01	AS SHOWN